





ORDER NO. TRT1053

SURFACE-MOUNT TUNE-UP WOOFER SYSTEM

TS-LX100

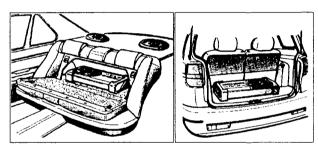
SPECIFICATIONS

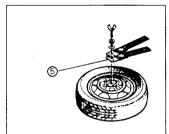
| 0. |
|---|
| •Speaker specifications |
| Size ····· φ 180mm (7"Dia.) |
| Injection-molded polypropylene cone |
| High compliance, rolled edge |
| Heat-resistant voice coil |
| Strontium magnet: 440g (15.5oz) |
| •Amplifier |
| Max. Power output80W (60Hz. 30% THD) |
| INPUT LEVEL (at Gain Max.) |
| $(RCA) \cdots 150 \text{mV} + 150 \text{mV} / 20 \text{k} \Omega$ |
| (Speaker line) · · · · · · · · · 1.5V + 1.5V / 5k Ω |
| Power source DC14.4V (10.8 - 15.6V allowable) |
| Max. current consumption ····· 6A |
| Grounding ····· Negative ground |
| •Speaker system ·····Bass-reflex type |
| •Sensitivity ····· 94dB (1m / 10W, 60Hz)(max. 103dB) |
| •Size ······740mm (29-1/8")W × |
| 320mm (12-5/8")H × 141mm (5-1/2")D |
| •Cabinet material······Medium density fiber Particle board |
| •Weight (including accessory parts)······8.40kg (18lb 8oz) |
| •Gross weight (including packaging) ······· 9.80kg (21lb 10oz) |
| |

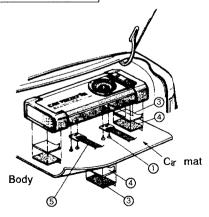
Note:

Specifications and the design are subject to possible modification without notice due to improvements.

EXAMPLE OF INSTALLATION





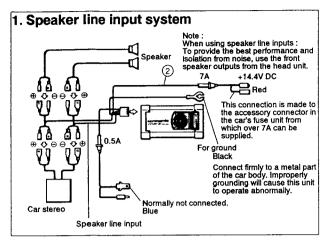


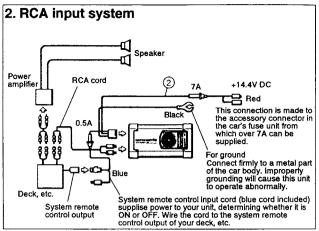
PIONEER ELECTRONIC CORPORATION 4-1, Meguro 1-Chome, Meguro-ku, Tokyo 153, Japan PIONEER ELECTRONICS SERVICE INC. P.O. Box 1760, Long Beach, California 90801 U.S.A. PIONEER ELECTRONICS OF CANADA, INC. 300 Allstate Parkway Markham, Ontario L3R 0P2 Canada PIONEER ELECTRONIC [EUROPE] N.V. Haven 1087 Keetberglaan 1, 9120 Melsele, Belgium PIONEER ELECTRONICS AUSTRALIA PTY. LTD. 178-184 Boundary Road, Braeside, Victoria 3195, Australia TEL: [03] 580-911 1

© PIONEER ELECTRONIC CORPORATION 1993

I JUNE 193 Printed in Japan

WIRING EXAMPLE





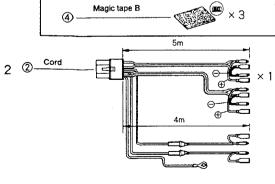
EXPLODED VIEW AND PARTS LIST

NOTES:

- Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.
- The \triangle mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- Parts marked by " " are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.

PACKING

| <u>Mark</u> | No. | Description | Part No. | Remark |
|----------------|----------|--------------------------|----------|------------|
| | 1 | Installation kit | TEA1386 | × 1 |
| | | (Magic tape A, B, Screw) | | |
| | 2 | Cord | TDC1758 | \times 1 |
| | 3 | Belt | TNA1203 | × 2 |
| | | Operating instructions | TRA1329 | × 1 |
| | | Packing case | THF1938 | $\times 1$ |
| For I | R side | Styrofoam protector | TEC1600 | l pair |
| | | Sheet | TEC1605 | × 2 |
| Fo | r center | Styrofoam protector | TEC1627 | 1 pair |
| | | Sheet | TEC1630 | × 1 |
| ⊕ Magic tape A | | | | |



| _ | Safety bett | | × 2 |
|---|-------------|---------|-----|
| 3 | ⑤—————— | - China | |
| | | V.3 | |

PARTS LIST OF EXPLODED VIEW

| Mark | No. | Description | Part No. Re | mark |
|-------------------------------|--------|----------------------|-------------|--------------|
| | | CONTROL LINE | W11/01005 | |
| • | 1 | CONTROL UNIT | TWG1005 | × 1 |
| ●● | 2 | TERMINAL UNIT | TWS1022 | \times 1 |
| ledow | 3 | POWER AMP UNIT | TWH1011 | \times 1 |
| | 4 5 | Speaker | 16-1021BZ | \times 1 |
| | 5 | Panel assembly | TXK1289 | \times 1 |
| NSP | 6 | Mesh | TLL1299 | × 1 |
| NSP | 7 | Front panel assembly | TXK1290 | $\times 1$ |
| | 8 | Cabinet assembly | TXC1103 | $\times 1$ |
| | 9 | Bracket | TNA1276 | $\times 1$ |
| | 10 | Heat sink | TNA1277 | × 1 |
| | 11 | VR knob | TAA1005 | × 3 |
| | 12 | Screw | TBA1063 | × 6 |
| | 13 | Switch knob | TAA1009 | $\times 1$ |
| | 14 | Cord | TDC1729 | \times 1 |
| | 15 | Packing | TED1102 | ×I |
| | 16 | Packing | TED1103 | × 2 |
| | 17 | Cushion | TED1104 | $\times 1$ |
| | 18 | Insulator | TNM1005 | \times 1 |
| | 19 | RCA cap | TEB1173 | $\times 2$ |
| | 20 | Screw | BBZ30P060FM | $C \times 3$ |
| | 21 | Screw | PBB30P140FM | $C \times 2$ |
| | 22 | Screw | PNC50P160FM | |
| | 23 | Screw | BNC30P200FM | |
| | 24 | Screw | BNC30P120FM | |
| | 25 | Screw | BSZ30P060FM | |

2

2

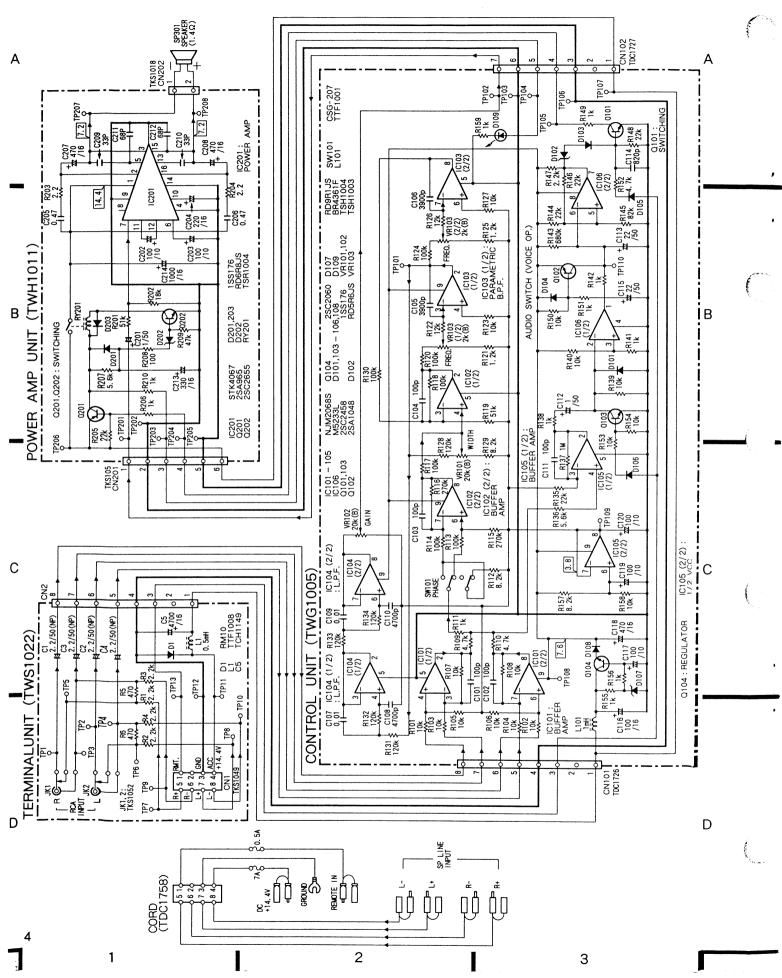
1

3

3

2

SCHEMATIC DIAGRAM



В

• This P. C. B. connection diagram is viewed from the foil side.

TERMINAL UNIT (TWS1022)

TP12

JK1

JK2

TP3

CNI

TP3 TP5 TP5 TP5 TP5 TP6

TP9 ORSO ONO
TP1 ORIOMO
TP

2

CONTROL UNIT (TWG1005)

1

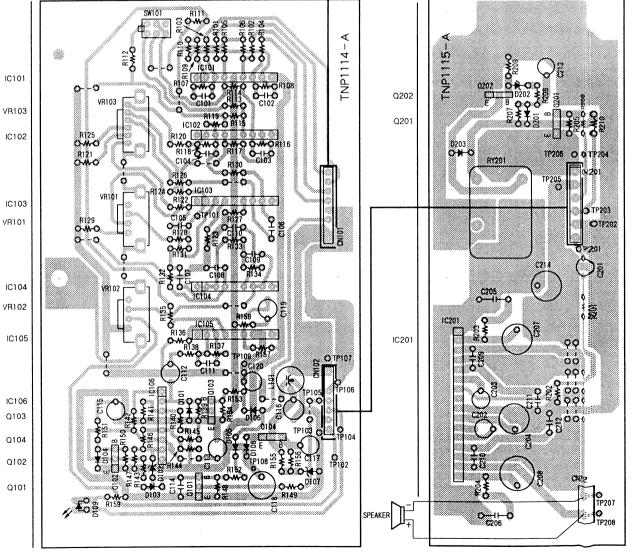
Α

В

С

D

POWER AMP UNIT (TWH1011)



5

D

2

3

1

PCB PARTS LIST

NOTES:

- Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.
- The \triangle mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- Parts marked by " " are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.
- When ordering resistors, first convert resistance values into code form as shown in the following examples.
- Ex.1 When there are 2 effective digits(any digit apart from 0), such as 560 ohm and 47k ohm(tolerance is shown by J=5%, and K=10%).
 - $560 \Omega \rightarrow 56 \times 10^t \rightarrow 561$ $RD1/8PM \boxed{5} \boxed{6} \boxed{1} J$ $47k \Omega \rightarrow 47 \times 10^t \rightarrow 473$ $RD1/4PS \boxed{4} \boxed{7} \boxed{3} J$ $0.5 \Omega \rightarrow 0R5$ $RN2H \boxed{R} \boxed{5} K$ $1 \Omega \rightarrow 010$ $RS1P \boxed{1} \boxed{0} K$
- Ex.2 When there are 3 effective digits(such as in high precision metal film resistors).
- $5.62k \Omega \rightarrow 562 \times 10^{\prime} \rightarrow 5621 \cdots RN1/4PC \boxed{5} \boxed{6} \boxed{2} \boxed{1} F$

| Mark No. Description | Part No. | Mark No. Description | Part No. |
|--|--|--|---|
| NSP PCB UNIT TERMINAL UNIT POWER AMP UNIT CONTROL UNIT | TWX1007 TWS1022 TWH1011 TWG1005 | OTHERS CN201 CONNECTOR CN202 CONNECTOR | TKS1050 TKS1018 |
| | | CONTROL UNIT | |
| TERMINAL UNIT | | SEMICONDUCTORS | |
| SEMICONDUCTOR D1 COIL | RM10-LF-D2K | IC101-IC105 IC106 Q101, Q103 Q102 | NJM2068S M5233L 2SC2458 2SA1048 |
| L1 CAPACITORS | TTF1008 | Q104 | 2SC2060 |
| C1-C4 C5 RESISTORS All resistors | CEA2R2M50NPLL TCH1149 RD1/4PS□□□JL | D101, D103-D106, D108 D102 D107 D109 | 1SS176 RD5R6JS RD9R1JS BR4361F |
| OTHERS JK1, JK2 RCA JACK CN1 CONNECTOR | TKS1052 TKS1049 | SWITCH SW101 | CSG-207 |
| POWER AMP UNIT | | COIL L101 | TTF1001 |
| SEMICONDUCTORS 1C201 Q201 Q202 D201, D203 D202 | STK4067 2SA965 2SC2655 1SS176 RD6R8JS | CAPACITORS C108, C110 C105, C106 C107, C109 C114 C101-C104, C111 | CQMA472J50 CQMA392J50 CQMA103J50 CKCYB82IK50 CCCSL101J50 |
| RELAY RY201 CAPACITORS C201 C202, C203 C204 C213 | TSR1004 CEA010M50L2 CEA101M10L2 CEA221M16L2 CEA331M16L2 | C118 C113, C115 C117, C119, C120 C112 C116 | CEA471M16L2 CEA220M50L2 CEA101M10L2 CEA010M50L2 CEA101M16L2 |
| C205, C206 C207, C208 C209, C210 C211, C212 C214 | CQMA474K50 CEA471M16L2 CCCSL330J50 CCCSL680J50 CEA102M16L2 | RESISTORS VR101, VR102 VR103 Other resistors OTHERS | TSH1004 TSH1003 RD1/4PS□□□□ |
| RESISTORS R203, R204 Other resistors | RS1V2R2JL RD1/4PS□□□JL | CN101 CORD CN102 CORD SPACER | TDC1726 TDC1727 TNK1325 |